

Re-run



THIS IS

5. Siew
 RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/651,150B

DATE: 11/12/2002
 TIME: 16:54:27

Input Set : N:\paola\US09651150B.raw
 Output Set: N:\CRF4\11122002\I651150B.raw

1 <110> APPLICANT: Payan, Donald
 2 <120> TITLE OF INVENTION: TOSO AS A TARGET FOR DRUG SCREENING
 3 <130> FILE REFERENCE: RIGL-002CON
 C--> 4 <140> CURRENT APPLICATION NUMBER: US/09/651,150B
 5 <141> CURRENT FILING DATE: 2000-08-30
 6 <150> PRIOR APPLICATION NUMBER: US 09/050,861
 7 <151> PRIOR FILING DATE: 1998-03-30
 8 <160> NUMBER OF SEQ ID NOS: 35
 9 <170> SOFTWARE: PatentIn version 3.1
 11 <210> SEQ ID NO: 1
 12 <211> LENGTH: 1911
 13 <212> TYPE: DNA
 14 <213> ORGANISM: Homo sapiens
 15 <400> SEQUENCE: 1
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 17 tctagaaggg acaatggact tctggctttg gccactttac ttccctgccaq tattcaggggc 120
 18 cctgaggatc ctcccagaag taaaggtaga gggggagctg ggcggatcaq ttaccatcaa 180
 19 atgcccaactt cctgaaatgc atgtgaggat atatctgtgc cgggagatgq ctggatctgg 240
 20 aacatgtggt accgtggat ccaccaccaa cttcatcaag gcagaataaca agggccgagt 300
 21 tactctgaag caataccac gcaagaatct gttccttagt gaggtaacac agctgacaga 360
 22 aagtgcacgc ggagtctatg cctgcggagc gggcatgaac acagaccggg gaaagaccga 420
 23 gaaagtccacc ctgaatgtcc acagtgaata cgagccatca tggaaagagc agccaatgcc 480
 24 tgagacttcca aaatggtttc atctgcctta tttgttccag atgcctgtcat atgccagtcc 540
 25 ttccaaatcc gtaaccagag ttaccacacc agctcaaagg ggcaggatc cttccagttca 600
 26 ccactccctcc cccaccaccc aaatcaccca ccgcgcctcga gtgtccagag catcttcagt 660
 27 agcaggtgac aagccccgaa ctttcctgcc atccactaca gcctcaaaaaa tctcagctct 720
 28 ggaggggctg ctcaagcccc agacgcccag ctacaaccac cacaccaggc tgcacaggca 780
 29 gagagcactg gactatggct cacagtctgg gagggaaggc caaggatttc acatccgtat 840
 30 cccgaccatc ctgggccttt tctctgtggc acttctgggg ctgggtggta aaaggccgt 900
 31 tgaaaggagg aaagccctct ccaggcgggc ccgcccactg gccgtgagga tgcgcgcct 960
 32 ggagagctcc cagaggcccc ggggtcgcc gcgcacgcgc tccaaaaca acatctacag 1020
 33 cgcctccccc cggcgccgtc gtggagcggc cgctgcaggc acaggggagg ccccccgttcc 1080
 34 cggcccccggc gcgcgcgttgc ccccccggcc gctgcagggtg tctgaatctc cctggctcca 1140
 35 tgccccatct ctgaagagcca gctgtgaata cgtgacccctc taccaccagg ctgcgcgcct 1200
 36 gatggaggac agtgatttcg atgactacat caatgttct gcctgacaaac tcccaagct 1260
 37 tcccccaacc ccaggctcgg actgtgggtc caaggagtct catctatctg ctgtatgtcca 1320
 38 atacctgtttt catgtgttct cagagccctc atcacttccc atgccccatc tcgactccca 1380
 39 tccccatcta tctgtggccc tgagcatggc tctgccccca ggtcgtctt cacacccctgg 1440
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 41 tgcttccttt ccaagccgtc gaacagactg tgggatttgc agagtgttc ttccatgtct 1560
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 43 ggcatacgta ttgtctcggg catccctccc agggttgggt cttagacaaa tagaaggctc 1680
 44 ttgtctcgag ttatgtgacg tgcctcagcc ccatggacta agcagggggtc tggatataaac 1740

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Input Set : N:\paola\US09651150B.raw
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45 actcctggaa acgccttgc cctgatccaa atgttagcac ttgctagtga acgtctactt 1800
 46 atctcaagtt ctatgctaaa ggcaatttat cttgatgtga tgataaacca aacttattag 1860
 47 caagatatgc atatatatcc ataaattctc tttactctgt ctccatcctt t 1911
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 50 <211> LENGTH: 390
 51 <212> TYPE: PRT
 52 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 2
 54 Met Asp Arg Trp Leu Trp Pro Leu Tyr Phe Leu Pro Val Ser Gly Ala
 55 1 5 10 15
 56 Leu Arg Ile Leu Pro Glu Val Lys Val Glu Gly Glu Leu Gly Gly Ser
 57 20 25 30
 58 Val Thr Ile Lys Cys Pro Leu Pro Glu Met His Val Arg Ile Tyr Leu
 59 35 40 45
 60 Cys Arg Glu Met Ala Gly Ser Gly Thr Cys Gly Thr Val Val Ser Thr
 61 50 55 60
 62 Thr Asn Phe Ile Lys Ala Glu Tyr Lys Gly Arg Val Thr Leu Lys Gln
 63 65 70 75 80
 64 Tyr Pro Arg Lys Asn Leu Phe Leu Val Glu Val Thr Gln Leu Thr Glu
 65 85 90 95
 66 Ser Asp Ser Gly Val Tyr Ala Cys Gly Ala Gly Met Asn Thr Asp Arg
 67 100 105 110
 68 Gly Lys Thr Gln Lys Val Thr Leu Asn Val His Ser Glu Tyr Glu Pro
 69 115 120 125
 70 Ser Trp Glu Glu Gln Pro Met Pro Glu Thr Pro Lys Trp Phe His Leu
 71 130 135 140
 72 Pro Tyr Leu Phe Gln Met Pro Ala Tyr Ala Ser Ser Ser Lys Phe Val
 73 145 150 155 160
 74 Thr Arg Val Thr Thr Pro Ala Gln Arg Gly Lys Val Pro Pro Val His
 75 165 170 175
 76 His Ser Ser Pro Thr Thr Gln Ile Thr His Arg Pro Arg Val Ser Arg
 77 180 185 190
 78 Ala Ser Ser Val Ala Gly Asp Lys Pro Arg Thr Phe Leu Pro Ser Thr
 79 195 200 205
 80 Thr Ala Ser Lys Ile Ser Ala Leu Glu Gly Leu Leu Lys Pro Gln Thr
 81 210 215 220
 82 Pro Ser Tyr Asn His His Thr Arg Leu His Arg Gln Arg Ala Leu Asp
 83 225 230 235 240
 84 Tyr Gly Ser Gln Ser Gly Arg Glu Gly Gln Gly Phe His Ile Leu Ile
 85 245 250 255
 86 Pro Thr Ile Leu Gly Leu Phe Leu Leu Ala Leu Leu Gly Leu Val Val
 87 260 265 270
 88 Lys Arg Ala Val Glu Arg Arg Lys Ala Leu Ser Arg Arg Ala Arg Arg
 89 275 280 285
 90 Leu Ala Val Arg Met Arg Ala Leu Glu Ser Ser Gln Arg Pro Arg Gly
 91 290 295 300
 92 Ser Pro Arg Pro Arg Ser Gln Asn Asn Ile Tyr Ser Ala Cys Pro Arg
 93 305 310 315 320
 94 Arg Ala Arg Gly Ala Asp Ala Ala Gly Thr Gly Glu Ala Pro Val Pro

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Input Set : N:\paola\US09651150B.raw
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95 325 330 335
 96 Gly Pro Gly Ala Pro Leu Pro Pro Ala Pro Leu Gln Val Ser Glu Ser
 97 340 345 350
 98 Pro Trp Leu His Ala Pro Ser Leu Lys Thr Ser Cys Glu Tyr Val Ser
 99 355 360 365
 100 Leu Tyr His Gln Pro Ala Ala Met Met Glu Asp Ser Asp Ser Asp Asp
 101 370 375 380
 102 Tyr Ile Asn Val Pro Ala
 103 385 390
 105 <210> SEQ ID NO: 3
 106 <211> LENGTH: 73
 107 <212> TYPE: PRT
 108 <213> ORGANISM: Homo sapiens
 109 <400> SEQUENCE: 3
 110 Val Thr Ile Lys Cys Pro Leu Pro Glu Met His Val Arg Ile Tyr Leu
 111 1 5 10 15
 112 Cys Arg Glu Met Ala Gly Ser Gly Thr Cys Gly Thr Val Val Ser Thr
 113 20 25 30
 114 Thr Asn Phe Ile Lys Ala Glu Trp Lys Gly Arg Val Thr Leu Lys Gln
 115 35 40 45
 116 Tyr Pro Arg Lys Asn Leu Phe Leu Val Glu Val Thr Gln Leu Thr Glu
 117 50 55 60
 118 Ser Asp Ser Gly Val Tyr Ala Cys Gly
 119 65 70
 121 <210> SEQ ID NO: 4
 122 <211> LENGTH: 79
 123 <212> TYPE: PRT
 124 <213> ORGANISM: Homo sapiens
 125 <400> SEQUENCE: 4
 126 Leu Ser Leu Thr Cys Thr Val Ser Gly Ser Thr Phe Ser Asn Asp Tyr
 127 1 5 10 15
 128 Tyr Thr Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile Gly
 129 20 25 30
 130 Tyr Val Phe Tyr His Gly Thr Ser Asp Asp Thr Thr Pro Leu Arg Ser
 131 35 40 45
 132 Arg Val Thr Met Leu Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Arg
 133 50 55 60
 134 Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
 135 65 70 75
 137 <210> SEQ ID NO: 5
 138 <211> LENGTH: 73
 139 <212> TYPE: PRT
 140 <213> ORGANISM: Homo sapiens
 141 <400> SEQUENCE: 5
 142 Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser Asn
 143 1 5 10 15
 144 Tyr Ala Asn Trp Val Gln Gln Lys Pro Asp His Leu Phe Thr Gly Ile
 145 20 25 30
 146 Gly Gly Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe Ser Gly

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147          35          40          45
148      Ser Leu Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Thr
149          50          55          60
150      Glu Asp Glu Ala Ile Tyr Phe Cys Ala
151          65          70
153 <210> SEQ ID NO: 6
154 <211> LENGTH: 72
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 6
158      Thr Ser Leu Asn Cys Thr Phe Ser Asp Ser Ala Ser Gln Tyr Phe Trp
159          1          5          10          15
160      Trp Tyr Arg Gln His Ser Gly Lys Ala Pro Lys Ala Leu Met Ser Ile
161          20          25          30
162      Phe Ser Asn Gly Glu Lys Glu Glu Gly Arg Phe Thr Ile His Leu Asn
163          35          40          45
164      Lys Ala Ser Leu His Phe Ser Leu His Ile Arg Asp Ser Gln Pro Ser
165          50          55          60
166      Asp Ser Ala Leu Tyr Leu Cys Ala
167          65          70
169 <210> SEQ ID NO: 7
170 <211> LENGTH: 75
171 <212> TYPE: PRT
172 <213> ORGANISM: Homo sapiens
173 <400> SEQUENCE: 7
174      Val Thr Leu Arg Cys Lys Pro Ile Ser Gly His Asn Ser Leu Phe Trp
175          1          5          10          15
176      Tyr Arg Gln Thr Met Met Arg Gly Leu Glu Leu Leu Ile Tyr Phe Asn
177          20          25          30
178      Asn Asn Val Pro Ile Asp Asp Ser Gly Met Pro Glu Asp Arg Phe Ser
179          35          40          45
180      Ala Lys Met Pro Asn Ala Ser Phe Ser Thr Leu Lys Ile Gln Pro Ser
181          50          55          60
182      Glu Pro Arg Asp Ser Ala Val Tyr Phe Cys Ala
183          65          70          75
185 <210> SEQ ID NO: 8
186 <211> LENGTH: 74
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
189 <400> SEQUENCE: 8
190      Val Glu Leu Thr Cys Thr Ala Ser Gln Lys Lys Ser Ile Gln Phe His
191          1          5          10          15
192      Trp Lys Asn Ser Asn Gln Ile Lys Ile Leu Gly Asn Gln Gly Ser Phe
193          20          25          30
194      Leu Thr Lys Gly Pro Ser Lys Leu Asn Asp Arg Ala Asp Ser Arg Arg
195          35          40          45
196      Ser Leu Trp Asp Gln Gly Asn Phe Pro Leu Ile Ile Lys Asn Leu Lys
197          50          55          60
198      Ile Glu Asp Ser Asp Thr Tyr Ile Cys Glu

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Input Set : N:\paola\US09651150B.raw
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199      65          70
201 <210> SEQ ID NO: 9
202 <211> LENGTH: 80
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 9
206      Ala Lys Met Ser Cys Glu Ala Lys Thr Phe Pro Lys Gly Thr Thr Ile
207      1           5           10          15
208      Tyr Trp Leu Arg Glu Leu Gln Asp Ser Asn Lys Asn Lys His Phe Glu
209      20          25          30
210      Phe Leu Ala Ser Arg Thr Ser Thr Lys Gly Ile Lys Tyr Gly Glu Arg
211      35          40          45
212      Val Lys Lys Asn Met Thr Leu Ser Phe Asn Ser Thr Leu Pro Phe Leu
213      50          55          60
214      Lys Ile Met Asp Val Lys Pro Glu Asp Ser Gly Phe Tyr Phe Cys Ala
215      65          70          75          80
217 <210> SEQ ID NO: 10
218 <211> LENGTH: 76
219 <212> TYPE: PRT
220 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 10
222      Val Thr Ile Thr Cys Pro Phe Thr Tyr Ala Thr Arg Gln Leu Lys Lys
223      1           5           10          15
224      Ser Phe Tyr Lys Val Glu Asp Gly Glu Leu Val Leu Ile Ile Asp Ser
225      20          25          30
226      Ser Ser Lys Glu Ala Lys Asp Pro Arg Tyr Lys Gly Arg Ile Thr Leu
227      35          40          45
228      Gln Ile Gln Ser Thr Thr Ala Lys Glu Phe Thr Val Thr Leu Lys His
229      50          55          60
230      Leu Gln Leu Asn Asp Ala Gly Gln Tyr Val Cys Gln
231      65          70          75
233 <210> SEQ ID NO: 11
234 <211> LENGTH: 84
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
237 <220> FEATURE:
238 <221> NAME/KEY: MISC_FEATURE
239 <222> LOCATION: (6)..(51)
240 <223> OTHER INFORMATION: "Xaa" at positions 6-7, 9-18, 20, 22, 25-32, 34-35, 37-48
and 50
241      -51 can be any amino acid.
242 <220> FEATURE:
243 <221> NAME/KEY: MISC_FEATURE
244 <222> LOCATION: (53)..(53)
245 <223> OTHER INFORMATION: "Xaa" at position 53 can be Phe, Val, or Ile.
246 <220> FEATURE:
247 <221> NAME/KEY: MISC_FEATURE
248 <222> LOCATION: (54)..(76)
249 <223> OTHER INFORMATION: "Xaa" at positions 54-65, 71, and 73-76 can be any amino
acid.
250 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 6,7,9,10,11,12,13,14,15,16,17,18,20,22,25,26,27,28,29,30
Seq#:11; Xaa Pos. 31,32,34,35,37,38,39,40,41,42,43,44,45,46,47,48,50,51,53
Seq#:11; Xaa Pos. 54,55,56,57,58,59,60,61,62,63,64,65,71,73,74,75,76,79,80
Seq#:11; Xaa Pos. 82
Seq#:25; Xaa Pos. 3,4,6

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:11; Line(s) 240,249

VERIFICATION SUMMARY

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Input Set : N:\paola\US09651150B.raw
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L:4 M:270 C: Current Application Number differs, Wrong Format
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16
L:263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:32
L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:48
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:64
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:80
L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0